

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name:	Owensboro Specialty Polymers, LLC
Address:	5529 US HWY 60 East Owensboro, KY 42303
Date application received:	11/16/2006
SIC Code/SIC description:	2821, Plastics Materials, Synthetic and Resins, and Nonvulcanizable Elastomers
Source ID:	21-059-00155
Source A.I. #:	972
Activity ID:	APE20060003
Permit:	F-07-029

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
<input type="checkbox"/> Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input checked="" type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
VOC	11.9	69.1
<u>Single HAPs</u>		
Acrylonitrile	0.9	0.215
Acrylic Acid	0.02	0.177
Methanol	0.6	< 9.5
Methyl Methacrylate	0.7	8.155
Vinyl Acetate	1.8	< 9.5
Vinylidene Chloride	5.1	< 9.5
Combine HAPs	9.12	< 23.75

SOURCE DESCRIPTION:

Owensboro Specialty Polymers, LLC (OSP) owns and operates a batch chemical manufacturing facility in Owensboro, Kentucky. Originally built by the Dewey and Almy Chemical Division of W.R. Grace in 1958, OSP purchased the facility from W.R. Grace & Co. in September 2005. The primary products of OSP are various latex polymers, which fall under the Standard Industrial Classification (SIC) Code 2821 – Plastics Materials and Resins. There are four process groups at the facility: (1) reactor trains, (2) raw material storage tanks, (3) product storage tanks with ancillary piping, and (4) wastewater treatment facilities. Each affected facility/emission point that comprises these process groups have been grouped together for the purposes of presenting the requisite information on emissions and applicable requirements in this application. Generally, the four remaining product lines that draw raw materials from the raw material storage tanks are polymerized in the reactor trains, and the product is then transferred to the product storage tanks to await shipment.

On November 16, 2006 the Division of Air Quality received an application from OSP for an initial conditional major permit under 401 KAR 52:030. The source is currently a major source for hazardous air pollutants (HAPs) under Title V and operates under permit #V-05-053. However, based on the elimination of three product lines (COPOL, DMDNB and HYPOL), OSP wants to become a conditional major source with federally enforceable limits. The application was completed on April 28, 2007.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

OSP has applied to operate under federally enforceable permit limits of less than 90 tons per year of VOC, less than 9.5 and 23.75 tons per year of single and combined HAPs, respectively.

OPERATIONAL FLEXIBILITY:

The source is not restricted as to hours of operation or quantity of product produced while remaining within the caps above.